Beam Power Tube

NOVAR TYPE SEPARATE GRID-No.3 BASE-PIN TERMINAL FOR "SNIVETS" CONTROL^h For Horizontal-Deflection-Amplifier Service in Low-B+, Black-and-White TV Receivers

Electrical:

Heater Characteristics and Ratings:	
Current 0.450 + 0.030	amp
Voltage (AC or DC) at heater	
amperes = 0.450 22.0	volts
Warm-up time (Average)	sec
Peak heater-cathode voltage:	300
Heater negative with	
respect to cathode 200 max.	volts
Heater positive with	¥0105
respect to cathode 200 amax.	volts
Direct Interelectrode Capacitances	,0,10
(Approx.) b:	
Grid No.1 to plate 1.2	nf
Input: G1 to (K,G3,G2,H)	b.t
Output: P to (K, G), G2, H)	b1
Output: P to (K,G3,G2,H) 9.0	p†

Mechanical:

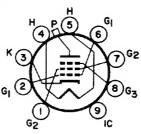
Operating Position							
Type of Cathode							
Maximum Overall Length							
Seated Length 2.910" to 3.170"							
Diameter							
Bulb							
Cap							
Socket Novar							
Bases (Alternates):							
Large-Button Novar 9-Pin (JEDEC No.E9-76)							

Large-Button Novar 9-Pin with Exhaust Tip (JEDEC No.E9-88) Basing Designation for BOTTOM VIEW. . .

Pin 1 - Grid No.2 Pin 2 - Grid No.1 Pin 3 - Cathode Pin 4 - Heater Pin 5 - Heater Pin 6 - Grid No. 1 Pin 7-Grid No.2 Pin 8 - Grid No.3

Pin 9 - Do Not Use Cap - Plate



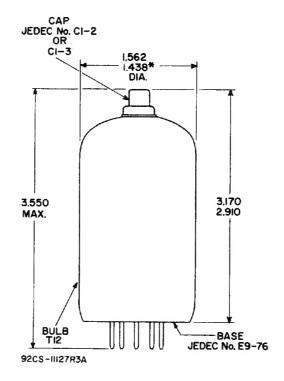


Characteristics:

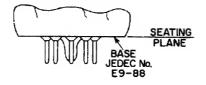
							Triode Connec- tion	
Plate Voltage Peak Positive-Pulse				-	50	130	125	volts
Plate Voltaged .				6500	-	_	_	volts

Triode Connect tion ^c Grid No.3	(
HORIZONTAL-DEFLECTION AMPLIFIER	
Maximum Ratings, Design-Maximum Values:	
For operation in a 525-line, 30-frame system f	
DC Plate Supply Voltage	
Peak Positive—Pulse Plate Voltage 6500 max. volts	
Peak Negative-Pulse Plate Voltage 1500 max. volts	
DC Grid-No.3 Voltage ^h	
DC Grid-No.2 (Screen-Grid) Voltage 220 max. volts	•
DC Grid-No.1 (Control-Grid) Voltage:	
Negative-bias value	
Peak Negative-Pulse Grid-No.1 Voltage 330 max. volts	5
Cathode Current:	
Peak	
Average	
Grid-No.2 Input 3.5 max. watts	
Plate Dissipation 17 max. watts	;
Bulb Temperature (At hottest point	
on bulb surface)	,
Maximum Circuit Values:	
•••	_
Grid-No.1 Circuit Resistance:	
For grid-No.1-resistor-bias operation . 0.47 max. megohn	1
For plate-pulsed operation	
(horizontal-deflection circuits only). 10 max. megohms	5
The dc component must not exceed 100 volts.	
b Without external shield.	
with grid No. 2 connected to plate at socket.	
Under conditions shown in footnote ^y .	
This value can be measured by a method involving a recurrent waveform such that the maximum ratings of the tube will not be exceeded.	
f As described in "Standards of Good Engineering Practice Concerning	
Television Broadcast Stations, "Federal Communications Commission.	
This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle	
is 10 microseconds. h to beginned deflection amplifier corving a positive voltage may be	
applied to grid No.3 to reduce interference from "snivets" which may occur in both whf and uhf television receivers. A typical value for	
this voltage is 30 volts. j An adequate bias resistor or other means is required to protect the tube	
in the absence of excitation.	





Alternative Base Bottom Exhaust



92CS-III27R38

DIMENSIONS IN INCHES

A detailed drawing of the E9-88 base is available from RCA, Commercial Engineering 51-2, Harrison, N.J. 07029.

^{*}Applies to the minimum diameter except in the area of the seal.

AVERAGE PLATE CHARACTERISTICS

